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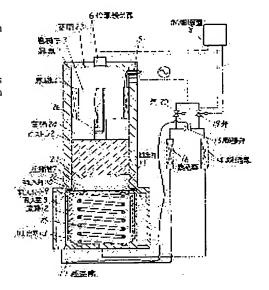
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(54) COMPRESSOR

(57)Abstract:

PURPOSE: To improve the adiabatic efficiency of a compressor and reduce the power consumption by providing an intake valve located in a container in a flow path affording communication between an intake chamber and a compression chamber, while enabling the flow path to be interruped by the slide surfaces between a piston and the inner wall of container. CONSTITUTION: A piston 2 coupled with an armature 3 of a linear motor is fitted slidably in a container 1 so that a compression chamber 7 is defined on the lower end face side of piston 2. When pressure in the compression chamber 7 is reduced by the upward movement of piston 2, an intake valve 10 provided on the lower portion of container 1 is opened so that refrigerant having low temperature and pressure in the intake chamber 8 flows into the compression chamber 7. Also, the refrigerant in the compression chamber 7 is compressed by the succeeding downward movement of piston 2 to push open a discharge valve 11 and send the high temperature and pressure refrigerant into the discharge chamber 13. When the piston 2 ascends again through the lower dead point, the discharge valve 11 is closed and the intake valve 10 is opened to take in the refrigerant again.



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